Amendments to the Claims

Claim 1 (currently amended): A method of isolating at least one plasmid from other component(s) of a liquid, comprising: which method comprises the steps of

- (a) providing a separation matrix comprised of one or more porous carriers, which carrier(s) present anion exchange groups on external surfaces as well as pore surfaces and a pore size distribution that does not allow access of plasmids to pore surfaces;
- (b) contacting said matrix with the liquid to adsorb the plasmid(s) to ligands present on the external surfaces of the separation matrix; and, optionally,
- (c) contacting an eluent with the separation matrix to release the plasmid(s) and recovering plasmid(s) from a fraction of said eluent.

Claim 2 (currently amended): A method of isolating at least one plasmid from other component(s) of a liquid, comprising: which method comprises the steps of

- (a) providing a separation matrix comprised of one or more porous carriers, which carrier(s) present anion exchange groups on external surfaces as well as pore surfaces and a DNA exclusion limit of at least about 270 base pairs;
- (b) contacting said matrix with the liquid to adsorb the plasmid(s) to ligands present on the external surfaces of the separation matrix; and, optionally,
- (c) contacting an eluent with the separation matrix to release the plasmid(s) and recovering plasmid(s) from a fraction of said eluent.

Claim 3 (currently amended): A method according to The method of claim 2, wherein the DNA exclusion limit of the separation matrix is at least about 1,000 base pairs.

Claim 4 (currently amended): A method according to any one of the preceding claims, The method of claim 1 or 2, wherein the separation matrix is in the form of essentially spherical particles having an average diameter of 30-50 μ m.

Claim 5 (currently amended): A method according to any one of the preceding claims,

The method of claim 1 or 2, wherein the plasmids are of a size that exceeds about

3,000 base pairs.

Claim 6 (currently amended): A method according to any one of the preceding claims,

The method of claim 1 or 2, which is a large scale process wherein at least about 1

grams of plasmid is recovered.

Claim 7 (currently amended): A method according to any one of the preceding claims,

The method of claim 1 or 2, wherein one of the other components of the liquid is

RNA, which in step (b) is adsorbed to ligands present on the pore surfaces of the separation matrix.

Claim 8 (currently amended): A method according to The method of claim 7, wherein the plasmids recovered in step (c) are essentially free from RNA.

Claim 9 (currently amended): A method according to any one of the preceding claims, which comprises the following additional step The method of claim 1 or 2, further comprising:

(d) subjecting the plasmid-containing eluate obtained from step (c) to hydrophobic interaction chromatography (HIC).

Claim 10 (currently amended): A method according to any one of the preceding elaims, The method of claim 1 or 2, wherein said anion-exchange groups are selected from the group that consists consisting of quaternary amine (Q) groups and diethylamine groups.

Claim 11 (currently amended): Use of a separation matrix comprised of one or more porous carriers, A separation matrix for the purification of plasmids comprising one or more porous carriers which carrier(s) present anion exchange groups on external surfaces as well as pore surfaces and a pore size distribution that does not allow access of plasmids to pore surfaces, for the purification of plasmids.

Claim 12 (currently amended): Use of a A separation matrix comprised of for the purification of plasmids comprising a porous carrier to the surfaces of which wherein anion-exchange groups have been immobilized on the surfaces, which matrix presents a DNA exclusion limit of at least about 270 base pairs, for the purification of plasmids.

Claim 13 (currently amended): Use according to The separation matrix of claim 12, wherein the DNA exclusion limit of the matrix is at least about 1,000 base pairs.

Claim 14 (cancelled)

Claim 15 (currently amended): Use according to any one of claims 11-14, The separation matrix of claim 11 or 12, wherein the separation matrix is in the form of essentially spherical particles having an average diameter of 30-50 μ m, and the plasmids are of a size that exceeds about 3,000 base pairs.

Claim 16 (currently amended): Use according to any one of claims 11-15, The separation matrix of claim 11 or 12, wherein one of the other components of the liquid is RNA, which in step (b) is adsorbed to the pore surfaces of the separation matrix absorb RNA impurities, while the plasmids are adsorbed to the external surfaces of the separation matrix absorb the plasmids.

Claim 17 (currently amended): Use according to any one of claims 11-16-The separation matrix of claim 11 or 12, for large scale purification of plasmids in volumes exceeding about 1 grams of plasmid.

Claim 18 (original): A kit comprising, in separate compartments, a separation matrix comprised of one or more porous carriers, which carrier(s) present anion exchange groups on external surfaces as well as pore surfaces and a pore size distribution that does not allow access of plasmids to pore surfaces; at least one buffer; and written instructions that describes how plasmids are purified from other components of a liquid using said kit.

Claim 19 (original): A kit comprising, in separate compartments, a separation matrix comprised of a carrier to the surfaces of which anion-exchange groups have been immobilised, which matrix presents a DNA exclusion limit of at least about 270 base

pairs; at least one buffer; and written instructions that describes how plasmids are purified from other components of a liquid using said kit.

Claim 20 (currently amended): A kit according to The kit of claim 19, wherein the DNA exclusion limit of the matrix is at least about 1,000 base pairs.

Claim 21 (currently amended): A kit according to any one of claims 18-20, The kit of claim 18 or 19, wherein the matrix is in the form of essentially spherical particles having an average particle diameter of 30-50 µm.

Claim 22 (currently amended): A kit according to any one of claims 18-21, The kit of claim 18 or 19, wherein the separation matrix is provided in a chromatography column the diameter of which is at least about 10 cm.